

•	Application No.	Applicant(s)	
	10/690,058	CONTI, CARLO	
Notice of Allowability	Examiner	Art Unit	
	Igor Kershteyn	3745	
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate comming IGHTS. This application is:	n this application. If not included unication will be mailed in due course. THIS	
1. This communication is responsive to			
2. The allowed claim(s) is/are <u>1-14</u> .			
3. The drawings filed on 12 October 2003 are accepted by the	e Examiner.		
 4. Acknowledgment is made of a claim for foreign priority units a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 	•	or (f).	
2. Certified copies of the priority documents have	e been received in Application	on No	
3. Copies of the certified copies of the priority do	cuments have been receive	d in this national stage application from the	
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the requirements	
5. A SUBSTITUTE OATH OR DECLARATION must be subminFORMAL PATENT APPLICATION (PTO-152) which give			
6. CORRECTED DRAWINGS (as "replacement sheets") must	st be submitted.		
(a) including changes required by the Notice of Draftspers	son's Patent Drawing Revie	v (PTO-948) attached	
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date			
(b) including changes required by the attached Examiner' Paper No./Mail Date	s Amendment / Comment o	r in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the same of			
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT 			
		•	
Attachment(s) 1. ⊠ Notice of References Cited (PTO-892)	5. ☐ Notice of Ir	formal Patent Application (PTO-152)	
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview S	ummary (PTO-413),	
Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date		/Mail Date Amendment/Comment	
4. Examiner's Comment Regarding Requirement for Deposit	8. 🗌 Examiner's	Statement of Reasons for Allowance	
of Biological Material	9.	<u>.</u> .	
v			
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EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Timothy Keefer (Reg. No. 35,567) on 01/12/05.

The application has been amended as follows:

IN THE CLAIMS:

In claim 5, line 3, "a rear closing" has been changed to -the--,

In claim 5, line 3, --radial-- has been added after "said".

The above changes have been made to provide proper antecedent basis for the recited components.

Reasons for allowance

The following is an examiner's statement of reasons for allowance:

The instant invention is deemed to be directed to an unobvious improvement to a pump over U.S. Patent No. 3,825,366 which teaches a pump 10 comprising a body (not numbered), an actuating shaft 18 on which at least a first impeller 28 and a second impeller 26 are coaxially mounted, the first impeller 28 being housed in a front chamber

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(not numbered) and said second impeller being housed in a rear chamber (not numbered), the rear chamber connected to a fluid intake duct 14 and a fluid delivery duct 16, wherein: said front chamber is delimited by said body and by an interstage body 12; said rear chamber is delimited by said interstage body 12 and by a shield (not numbered), said interstage body 12 has: two volutes (not numbered) respectively associated with the corresponding first impeller 28 and second impeller 26.

The improvement comprises a first discharge orifice associated the first volute; a second discharge orifice connecting the second volute to the delivery duct; wherein said body comprises a channel for the throughflow of fluid from said front chamber to a means for supplying the fluid to the second impeller.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Prior Art

Prior art made of record but not relied upon is considered pertinent to Applicant's disclosure and consist of two patents.

Ravicchio et al. (3,934,752) is cited to show a centrifugal pump having a first impeller, a second impeller, a body, an interstage body, a front and rear chambers but fails to teach means for supplying fluid to the second impeller.

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McKenna (5,320,489) is cited to show a centrifugal pump having a first impeller, a second impeller, a body, an interstage body, a front and rear chambers but fails to teach means for supplying fluid to the second impeller.

Contact information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Kershteyn whose telephone number is (571)272-4817. The examiner can be reached on Monday-Friday from 8:00 a.m. to 4:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Look, can be reached on **(571)272-4820**. The fax number is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308 0861.

IK January 13, 2005

Igor Kershteyn Patent examiner. Art Unit 3745

EDWARD K. LOOK SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 3700

1/19/05